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EXAMINER

JOO, JOSHUA

ART UNIT	PAPER NUMBER
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2154

DATE MAILED: 12/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/932,107	Applicant(s) ROLLINS, DOUG	
	Examiner Joshua Joo	Art Unit 2154	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-9, 16, 18-25, 27-29, 37-39, 41-49 and 51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-9, 16, 18-25, 27-29, 37-39, 41-49 and 51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Amendment filed 10/20/2005

1. Claims 1, 3-9, 16, 18-25, 27-29, 37-39, 41-49, and 51 are presented for examination.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3, 8, 16, 18, 23, 25, 27-29, 37-39, 41-42, 47, and 49 are rejected under 35 U.S.C. 103(e) as being unpatentable over Banerjee et al, US Patent #6,760,017 (Banerjee hereinafter), in view of Zien, US Patent #6,864,860.

4. As per claim 1, Banerjee teaches substantially the invention as claimed including a computer administration system for accessing computer systems in a computer network (Col 3, lines 40-44. System for wireless control of a remote computer.), each computer system having at least one operator interface connector and being adapted to provide operator interface data signals containing user output information through the operator interface connector (Col 42, lines 61-66. Transmits data signals from host computer.) and being adapted to receive operator interface data signals containing user input information through the operator interface connector (Col 11, lines 48-60; Col 41, lines 1-12. Host computer receives data signals from wireless interface device), the operator interface connector including at least one of a keyboard connector and a video connector and the operator interface data signals transferred through the keyboard connector having keyboard signals and transferred through the video connector

Art Unit: 2154

having video signals (Col 42, lines 61-66; Col 43, lines 49-55. Host computer transmits video and keyboard signals.), Banerjee's system comprising:

a plurality of system communication devices (Col 55, lines 57-61. Plurality of computers.), each system communications device being adapted to be coupled to the operator interface connector of a corresponding computer system (Col 42, lines 61-66. Receives data signals. Col 43, lines 51-52. Data signals being keyboard, video, and mouse output. Operator interface connect is inherent.) and operable in a transmit mode to receive the operator interface data signals from the corresponding computer system through the operator interface connector of the corresponding computer system (Col 43, line 51-52. Video, keyboard and mouse signals.) and to generate corresponding operator interface transmission signals (Col 42, line 61-66. Host computer transmits data signals.), and operable in a receive mode to receive operator interface transmission signals and to generate corresponding keyboard signals that are applied to corresponding computer system through the operator interface connector of the corresponding computer system (Col 11, lines 48-60. Input data from the wireless device is processed by the computer, and the computer's output data from an application program is transmitted. Col 41, lines 1-12. Receives data signals from the wireless interface device.); and
a remote access device, comprising,

a remote communications device operable to select a system communications device (Col 55, lines 45-61. A wireless interface device can select one of a plurality of host computers.) and operable during the transmit mode to receive the operator interface transmission signals from the selected system communications device and to generate corresponding operator interface data signals, and operable during the receive mode to receive operator interface data signals (Col 42, lines 61-64. Wireless interface device receives data signals from the host computer.) and generate corresponding operator keyboard signals that are

Art Unit: 2154

applied to the selected system communications device (Col 11, lines 48-60. Stylus pen events of the wireless interface device are processed as input data for the Windows operating system of the host computer.), and

an operator interface device coupled to the remote communications device and adapted to accept user input and provide user output (Col 4, lines 55-68. Wireless interface device has a display subsystem for collecting input and displaying output.), the operator interface device operate to generate a user output in response to the operator interface data signals from the remote communications device, and operable in response to user input to apply corresponding keyboard signals to the remote communications device (Col 3, lines 48-52. The wireless interface device has a graphical user interface (GUI) for user input. Col 48, lines 21-24. If the user selects a "host" icon, a list of host computer groups that are accessible by the wireless device are displayed on the screen.).

5. Banerjee teaches of transmitting by the wireless interface device operator interface signals comprising keyboard signals (Col 41, lines 1-12). However, Banerjee does specifically teach of the wireless interface device transmitting operator interface signals comprising video signals to the host computer.

Zien teaches of synchronizing portable devices with computers (Col 2, lines 46-59), wherein the portable device may transmit video screen data to the computer (Col 4, lines 40-49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Banerjee and Zien because the teachings of Zien to transmit video data from the wireless device to the computer would improve the teachings of Banerjee by synchronizing the wireless interface device and the host computer to allow the host computer to

Art Unit: 2154

also receive video screen data of the wireless interface device in addition to the wireless interface device's keyboard data.

6. As per claim 16, Banerjee teaches substantially the invention as claimed including a computer administration system for accessing computer systems in a computer network (Col 3, lines 40-44. System for wireless control of a remote computer.), each computer system having at least one operator interface connector and being adapted to provide operator interface data signals containing user output information through the operator interface connector (Col 42, lines 61-66. Transmits data signals from host computer) and being adapted to receive operator interface data signals containing user input information through the operator interface connector (Col 11, lines 48-60; Col 41, lines 1-12. Host computer receives data signals from the wireless interface device.), and each computer system including a local operator interface device, the operator interface connector including at least one of a keyboard connector and a video connector and the operator interface data signals transferred through the keyboard connector having keyboard signals and transferred through the video connector having video signals (Col 42, lines 61-66; Col 43, lines 49-55. Host computer transmits video and keyboards signals.). Banerjee's system comprising:

a plurality of system communications devices (Col 55, lines 58-61. Plurality of host computers.), each system communications device being adapted to be coupled to the operator interface connector of a corresponding computer system and further adapted to be coupled to the local operator interface device, each system communications device, (Col 42, lines 62-67; Col 43, line 51-52. Transmit keyboard, screen, and mouse signals to wireless interface device. Operator interface connect is inherent.)), and

operable in local-user mode to apply the operator interface data signals from the computer system to the local operator interface device to allow the computer system to be controlled through the local operator interface device (Col 43, lines 49-56. Host computer has a keyboard and mouse inputs for local user access), and

operable in an override mode to inhibit control of the computer system through the local operator interface device (Col 43, lines 49-55. Disable keyboard and mouse.) and to operate in a transmit submode to receive the operator interface data signals from the corresponding computer system and to generate corresponding operator interface transmission signals (Col 10, lines 61-66. The host computer transmits its data signals to the wireless interface device.), and to operate in a receive submode to receive operator interface transmission signals (Col 10, lines 6-13. Input of the wireless interface device is transmitted to the host computer.) and to generate corresponding keyboard data signals that are applied to the corresponding computer system through the operator interface connector (Col 11, lines 53-58. Interpreted data are processed as input data to the Windows operating system or the application program.), and

a remote access device comprising:

a remote communications device operable to select a system communications device (Col 55, lines 45-61. A wireless interface device can select one of a plurality of host computers.) and operable during the transmit submode to receive the operator interface transmission signals from the selected system communications device and to generate corresponding operator interface data signals (Col 42, lines 61-64. Wireless interface device connects to a host computer and displays what is being displayed on the host computer. Screen images of the host computer are transmitted to the wireless interface device.), and operable during the receive submode to receive keyboard data signals and generate corresponding operator interface transmission signals that are applied to selected system

Art Unit: 2154

communications device (Col 11, lines 48-60. Stylus pen events are processed as input data for the Windows operating system of the computer system and the output data from an application program is transmitted to the wireless interface device. Col 10, lines 6-13. The positions of the stylus are transmitted to the host computer.), and

an operator interface device coupled to the remote communications device and adapted to accept user input and provide user output (Col 4, lines 55-68. Wireless interface device has a display subsystem for collecting input and displaying output.), the operator interface device operable to generate user output in response to the operator interface data signals from the remote communications device, and operable in response to user input to apply corresponding keyboard data signals to the remote communications device (Col 3, lines 48-52. The wireless interface device has a graphical user interface (GUI) for user input. Col 11, lines 48-60. Stylus pen events of the wireless interface device are processed as input data for the Windows operating system of the host computer, and the output data from an application program is transmitted to the wireless interface device. Col 41, lines 1-12. Wireless interface device input data is sent to the host computer.).

7. Banerjee teaches of transmitting by the wireless interface device operator interface signals comprising keyboard signals (Col 41, lines 1-12). However, Banerjee does specifically teach of the wireless interface device transmitting operator interface signals comprising video signals to the host computer.

Zien teaches of synchronizing portable devices with computers (Col 2, lines 46-59), wherein the portable device may transmit video screen data to the computer (Col 4, lines 40-49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Banerjee and Zien because the teachings of Zien to transmit video data from the wireless device to the computer would improve the teachings of Banerjee by synchronizing the wireless interface device and the host computer to allow the host computer to also receive video screen data of the wireless interface device in addition to the wireless interface device's keyboard data.

8. As per claim 25, Banerjee teaches substantially the invention as claimed including the system for accessing computer systems in a computer network (Col 3, lines 40-44. System for wireless control of a remote computer), each computer system having at least one operator interface connector and being adapted to provide operator interface data signals containing user output information through the operator interface connector (Col 42, lines 61-66. Transmits data signals from the host computer.) and being adapted to receive operator interface data signals containing user input information through the operator interface connector (Col 41, lines 1-12. Host computer receives data signals from wireless interface device), the operator interface connector including at least one of a keyboard connector and a video connector and the operator interface data signals transferred through the keyboard connector having keyboard signals and transferred through the video connector having video signals (Col 42, lines 61-66; Col 43, lines 49-55. Host computer transmits video and keyboard signals). Banerjee's computer system comprising:

a plurality of system communications devices (Col 55, lines 58-61. Plurality of host computers.), each system communications device being adapted to be coupled to the operator interface connector of a corresponding computer system (Col 42, lines 61-66; Col 43, line 51-52. Transmit keyboard, screen, and mouse signals. Operator interface connect is inherent.),

Art Unit: 2154

and a remote access device coupled to the system communications devices and including a remote communications device and an operator interface device (Col 4, lines 8-13. Host computer is provided with a PCMIA interface. Col 4, lines 2-5. Communication between the host computer and the wireless interface device is by a wireless communications link. Col 3, lines 46-53. Wireless interface device includes a graphical user interface.).

9. Banerjee teaches of transmitting by the wireless interface device operator interface signals comprising keyboard signals (Col 41, lines 1-12). However, Banerjee does specifically teach of the wireless interface device transmitting operator interface signals comprising video signals to the host computer.

Zien teaches of synchronizing portable devices with computers (Col 2, lines 46-59), wherein the portable device may transmit video screen data to the computer (Col 4, lines 40-49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Banerjee and Zien because the teachings of Zien to transmit video data from the wireless device to the computer would improve the teachings of Banerjee by synchronizing the wireless interface device and the host computer to allow the host computer to also receive video screen data of the wireless interface device in addition to the wireless interface device's keyboard data.

10. As per claim 37, Banerjee teaches substantially the invention as claimed including a plurality of computer systems, each computer system having at least one operator interface connector and being adapted to provide operator interface data signals containing user output information through the operator interface connector (Col 42, lines 61-66. Transmits data

Art Unit: 2154

signals from host computer.) and being adapted to receive operator interface data signals containing user input information through the operator interface connector (Col 41, lines 1-12. Host computer receives data signals from the wireless interface device.), the operator interface connect including at least one of a keyboard connector and a video connector and the operator interface data signals transferred through the keyboard connector having keyboard signals and transferred through the video connector having video signals (Col 42, lines 61-66; Col 43, lines 49-55. Host computer transmits video and keyboard signals.). Banerjee's system administration system comprising:

a plurality of computer systems (Col 55, lines 57-61. Plurality of computers.), each computer system having at least one operator interface connector (Col 43, line 51-52. Keyboard, screen, and mouse.), and being adapted to provide operator interface data signals containing user output information through the operator interface connector (Col 42, lines 61-67; Col 43, line 51-52. Transmit keyboard, screen, and mouse signals to the wireless interface device.), and being adapted to receive keyboard data signals containing user input information through the operator interface connector (Col 11, lines 48-55; Col 41, lines 1-12, Receives input data.),

a plurality of system communications devices (Col 55, lines 57-61. Plurality of computers. Col 4, lines 8-13. Computer has network card.), each system communications device coupled to the operator interface connector of a corresponding computer system (Col 42, lines 61-67; Col 43, line 51-52. Transmit keyboard, screen, and mouse signals. Operator interface connect is inherent.) and operable in a transmit mode to receive the operator interface data signals from the corresponding computer system through the operator interface connector of the corresponding computer system (Col 42, lines 61-67; Col 43, line 51-52. Transmit data signals comprising keyboard, screen, and mouse signals.) and to generate corresponding

Art Unit: 2154

keyboard signals that are applied to the corresponding computer system through the operator interface connector of the corresponding computer system (Col 41, lines 1-12. Wireless interface device input is transmitted to the host computer. Col 11, lines 48-60. Stylus pen events are processed as input data for the computer system and the output data is transmitted to the wireless interface device.), and

a remote access device comprising:

a remote communications device operable to select a system communications device (Col 55, lines 45-61. A wireless interface device can select one of a plurality of host computers.) and operable during the transmit mode to receive the operator interface transmission signals from the selected system communications device and to generate corresponding operating interface data signals (Col 42, lines 61-66. Receives input from the host computer. Displays what is being displayed on host computer.), and operable during the receive mode to receive keyboard data signals and generate corresponding operator interface transmission signals that are applied to the selected system communications device (Col 11, lines 48-60. Stylus pen events are processed as input data for the computer system and the output data is transmitted to the wireless interface device.), and

an operator interface device coupled to the remote communications device and adapted to accept user input and provide user output (Col 3, lines 48-52. The wireless interface device has a graphical user interface (GUI) for user input.), the operator interface device to generate user output in response to the operator interface data signals from the remote communications device (Col 10, lines 9-14. The positions of the stylus are transmitted to the host computer, which generates display commands to the wireless interface device.), and operable in response to user input to apply corresponding operator interface data signals to the remote communication device (Col 4, lines 55-68. Wireless interface device has a display subsystem

Art Unit: 2154

for collecting input and displaying output. Col 48, lines 21-24. If the user selects a "host" icon, a list of host computer groups that are accessible by the wireless device are displayed.).

11. Banerjee teaches of transmitting by the wireless interface device operator interface signals comprising keyboard signals (Col 41, lines 1-12). However, Banerjee does specifically teach of the wireless interface device transmitting operator interface signals comprising video signals to the host computer.

Zien teaches of synchronizing portable devices with computers (Col 2, lines 46-59), wherein the portable device may transmit video screen data to the computer (Col 4, lines 40-49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Banerjee and Zien because the teachings of Zien to transmit video data from the wireless device to the computer would improve the teachings of Banerjee by synchronizing the wireless interface device and the host computer to allow the host computer to also receive video screen data of the wireless interface device in addition to the wireless interface device's keyboard data.

12. As per claim 49, Banerjee teaches substantially the invention as claimed including a computer system having at least one operator interface connector and being adapted to provide operator interface data signals containing user output information through the operator interface connector (Col 42, lines 61-66. Transmits data signals from the host computer.) and being adapted to receive operator interface data signals containing user input information through the operator interface connector (Col 41, lines 1-12. Host computer receives data signals from the wireless interface device.), the operator interface connector including at least one of a keyboard connector and a video connector and the operator interface data signals transferred through the

Art Unit: 2154

keyboard connector having keyboard signals and transferred through the video connector having video signals (Col 42, lines 61-66; Col 43, lines 49-55. Host computer transmits video and keyboard signals.). Banerjee's method comprising:

encoding the operator interface signals provide through the operator interface connector from each computer system (Col 42, lines 61-66. Wireless interface device receives what is being displayed on the host computer. Screen images of the host computer are transmitted to the wireless interface device. Operator interface connector is inherent.),

transmitting the encoded operator interface signals via respective wireless links (Col 4, lines 2-5. Communication between the wireless interface device and host computer is by way of a wireless communication link),

selecting one of the computer systems (Col 55, lines 45-62. Wireless interface device selects one of a plurality of computer systems.),

receiving the transmitted encoded operator interface signals from the selected computer system (Col 10, lines 6-12. Wireless interface device receives output from the host computer and generates display commands.),

decoding the received operator interface signals (Col 10, lines 6-12. Wireless interface device receives output from the host computer and generates display commands.),

displaying user information at a location remote from the computer system in response to the decoded operator interface signals (Col 10, lines 6-14. Wireless interface device receives output and generates display commands. Wireless interface device executes display commands, which may result in an update of the LCD.),

receiving operator input at the remote location and generating corresponding keyboard signals responsive to the operator input (Col 10, lines 6-13. The wireless interface device

Art Unit: 2154

controls the host computer with input data received from the stylus input subsystem, which are transmitted to the host computer.),

encoding the generated keyboard signals (Col 10, lines 6-13. The wireless interface device controls the host computer with input data received from the stylus input subsystem, which are transmitted to the host computer.), and

transmitting the encoded keyboard signals to the selected computer system via a wireless protocol (Col 10, lines 9-10. The position of the stylus in stylus input subsystem are delivered to the host computer. Col 4, lines 2-4. Communication is by way of a wireless communication link.).

13. Banerjee teaches of transmitting by the wireless interface device operator interface signals comprising keyboard signals (Col 41, lines 1-12). However, Banerjee does specifically teach of the wireless interface device transmitting operator interface signals comprising video signals to the host computer.

Zien teaches of synchronizing portable devices with computers (Col 2, lines 46-59), wherein the portable device may transmit video screen data to the computer (Col 4, lines 40-49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Banerjee and Zien because the teachings of Zien to transmit video data from the wireless device to the computer would improve the teachings of Banerjee by synchronizing the wireless interface device and the host computer to allow the host computer to also receive video screen data of the wireless interface device in addition to the wireless interface device's keyboard data.

Art Unit: 2154

14. As per claims 3, 18, 27, 42, Banerjee teaches the computer administration system of claims 1, 16, 25, 37, wherein the remote communication device receives the operator interface transmission signals from the selected system communications device and applies the operator interface transmission signals to the selected system communications device via a wireless communications link (Col 42, lines 61-66. Wireless interface device receives what is being displayed on the host computer. Col 10, lines 6-13. The wireless interface device controls the program running in the host computer with input from the stylus input subsystem. Col 4, lines 2-4. Communications between the host computer and the wireless interface device is by a wireless communication link.).

15. As per claims 8, 23, 47, Banerjee teaches the computer administration system, wherein the operator interface signals are encoded for transmission by the transmitting system communications device or remote communications device and are decoded by the receiving system communications device or remote communications device (Col 10, lines 6-13. The positions of the stylus in the stylus input subsystem are transmitted to the host computer. Col 11, lines 52-58. The gestures or mouse events are interpreted and processed as input data to the Windows operating system. Col 4, lines 1-4. Communication between the wireless interface device and host computer is by way of a wireless communications link.).

16. As per claim 28, Banerjee teaches the computer administration system of claim 25, wherein the operator interface device comprises a plurality of buttons (Col 3, lines 48-61. The wireless interface device comprises of a virtual keyboard and supports a full-sized external keyboard.).

Art Unit: 2154

17. As per claim 29, Banerjee teaches the computer administration system of claim 25, wherein the operator interface device comprises a touch screen and plurality of buttons are displayed on the touch screen display (Col 3, lines 48-61. The wireless interface device comprises includes a graphical user interface, where input is by way of a passive stylus. A virtual keyboard is provided and the activation of the keys is by way of the stylus or finger input.).

18. As per claim 38, Banerjee teaches the computer administration system of claim 37, wherein at least some of the computer systems comprise servers (Col 4, lines 23-30. Communication between wireless interface device and wired LAN includes a server.).

19. As per claim 39, Banerjee teaches the computer administration of claim 37, wherein at least some of the computer systems comprise workstations (Col 3, lines 40-43. Wireless interface device accesses and controls a desktop, tower, or portable computer.).

20. As per claim 41, Banerjee teaches the computer administration system of claim 37, wherein at least some of the computer systems comprise local operator interface devices and each corresponding system communication device is operable in a pass-through mode to couple the operator interface data signals between the local operator interface device and the computer system to allow the local operator interface device to control the computer system, and is operable in an override mode to operate in the transmit and receive modes to allow the remote access device to control the computer system (Col 43, lines 49-56. Computer system has keyboard and mouse inputs for local user access, but also the wireless interface device can control the host computer. Wireless interface device can lock out a host computer to prevent

Art Unit: 2154

local user access. Col 10, lines 6-12. Input from the wireless interface device is transmitted to the host computer, which then responds by outputting display commands to the wireless interface device.).

21. Claims 4, 5, 7, 9, 19, 20, 22, 24, 43, 44, 46, 48, and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banerjee and Zien, in view of Tang et al, US Patent #6,347,095 (Tang hereinafter).

22. As per claims 4, 19, 43, and 51, Banerjee teaches of a remote communication device to identify the system communication devices and for the operator interface to allow a desired identified system communication device to be selected. (Col 10, lines 1-3. Wireless interface device identifies and connects to a host computer. Col 48, lines 20-24. A list of host computer groups that are accessible by the wireless interface device are displayed.). However, Banerjee not does specifically teach that the remote communications device identifies system communications devices proximate to the remote access device.

Tang teaches of a wireless communication between two devices based on proximity, where a device can identify and communicate with a plurality of devices within its proximity (Col 4, lines 43-56).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Banerjee , Zien, and Tang because all three teachings deal with communications between a plurality of devices in a wireless environment. Furthermore, the teachings of Tang to identify and communicate with devices within its proximity improves the system alertness of the wireless interface device by providing notification and location information of the computer systems.

23. As per claims 5, 20, 44, Banerjee and Tang taught the computer system administration as defined in claims 4, 19, and 43. Banerjee further teaches, wherein the user output generated by the operator interface device comprises a list of system communication devices and the operator interface device comprises a plurality of buttons that allow the desired identified system communication to be selected (Col 10, lines 1-3. Wireless interface device identifies and connects to a host computer. Col 48, lines 20-24. When a "host" icon is selected, a list of host computer groups that are accessible by the wireless interface device are displayed.).

24. As per claims 7, 22, 46, Banerjee teaches the computer administration system of claims 5, 20, 44, wherein the operator interface device further comprises a touch screen and the plurality of buttons are displayed on the touch screen display (Col 3, lines 48-61. Input to the wireless interface device is by a passive stylus and a virtual keyboard is also provided as part of the GUI. Activation of the keys is by way of stylus or finger input.).

25. As per claims 9, 24, 48, Banerjee teaches that the communication between the remote host computer and wireless interface device is by way of a wireless communication link (Col 4, lines 2-4). However, Banerjee does not teach that the wireless communication link comprises a communication link communicating via Bluetooth protocol.

Tang teaches of a wireless communication between two devices based on proximity, where wireless communication link uses the Bluetooth protocol (Col 5, lines 8-15; Col 5, lines 60-65).

It would have been obvious to one of ordinary skill in the art at the invention was made to combine the teachings of Banerjee, Zien, and Tang because all three teachings deal with

wireless communications between two devices. Furthermore, the invention of Tang to use the Bluetooth protocol for wireless communications improves Banerjee's invention by improving the system alertness of the wireless interface device by providing notification and geographic location information of the computer systems.

26. Claims 6, 21, 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banerjee, Zien, and Tang, and in view of "Official Notice".

27. As per claims 6, 21, 45, Banerjee teaches of performing a manual procedure for identified and connecting to the desired host computer (Col 10, lines 1-3). Furthermore, the wireless interface device includes a hot icon area for switching control of the host computer (Col 48, lines 6-8). When the user selects a certain dialog box, a list of host computer groups that are accessible by the wireless interface are displayed (Col 48, lines 18-24). The input of the wireless interface device is by a stylus input subsystem (Col 3, lines 48-52).

28. However, Banerjee does not specifically teach of buttons comprising of a manual connect, previous, next, and select buttons to allow the desired identified system communications device to be selected.

29. "Office Notice" is taken for the concept of having buttons comprising of a manual connect, previous, next, and select buttons is known and accepted in the art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have buttons comprising of a manual connect, previous, next, and select buttons to allow the desired identified system communications device to be selected because having dedicated buttons to select a system communication improves the user-friendliness of the wireless interface device

Art Unit: 2154

by allowing the user to quickly select the desired system computer device without having to go through various application screens.

Response to Arguments

30. Applicant's arguments filed 10/20/2005 have been fully considered but they are not persuasive.

31. Applicant argued that (1) Unlike the inventions claimed in claims 1, 16, 25, 37, and 49, transceiver 116 is not coupled through keyboard and video connectors, but through the PCMCIA interface or ISA bus. The signals that provided through the PCMCIA interface or ISA expansion slot are not the same as the keyboard and video signals recited in the claims.

Examiner traverses the arguments:

32. As to point (1), Banerjee teaches that:

- i) Col 1, lines 64-66, "(ii) receiving from the host computer 101 a video image to be displayed on the display subsystem."
- ii) Col 42, lines 1-66, "the wireless interface device 100 connects to a host computer 101 and displays whatever is being displayed on the host computer 101. In particular, after a connection is made, all of the screen images on the host computers 101 are passed on to the LCD display 113C on the wireless interface device 100."
- iii) Col 43, lines 49-53, "Whenever a connection is made between wireless interface device 100 and the host computer 101, the user can optionally blank the screen on the host computer 101 and disable the keyboard and mouse inputs connected to the host computer 101."

iv) Col 41, lines 4-12. "As mentioned above, the wireless interface device 100, through its graphical user interface, provides a virtual or on-screen keyboard (OSK). Thus, if the OSK has been activated and the pen event occurs in the OSK area, the mouse data is used locally by the wireless interface device... If the wireless interface 100 is running a host application, the mouse data is sent to the host computer 101 application over the wireless interface as discussed..."

33. Therefore from quoted sections (i) and (ii) of the Banerjee reference, the wireless interface device is capable of receiving video images from the host computer. Since video images are being transmitted by the host computer via the transceiver card, it is inherent that a video connector, e.g. operator interface connector, is coupled to the transceiver for the transceiver to be able to receive the video signals.

Furthermore, the wireless interface device is capable of receiving keyboard signals as well since from section (ii), Banerjee teaches that the wireless interface device "displays whatever is being displayed". The "whatever" may comprise of keyboard signals as well. Banerjee further proves this by providing the option of disabling the keyboard as taught in section (iii) because the keyboard inputs will be transmitted to the wireless interface device. Therefore, if the wireless interface device receives keyboard input from the host computer via the transceiver card, it is inherent that a keyboard connector is coupled to the transceiver for the transceiver to be able to receive the video signals.

Lastly, Banerjee teaches that of transmitting signals from section (iv) to run a host application. Therefore, an operator interface connector must be present for the host computer to receive the signals and make the changes.

Conclusion

34. The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- i) Behrens et al, US Patent #6,609,034, teaches of remotely controlling and monitoring a plurality of computer systems.
- ii) Perholtz et al, US Publication #2002/0091850, teaches of remotely controlling and monitoring computers wherein the video is transmitted to the remote device.
- ii) Behagen et al, US Publication #2002/0144271, teaches of remotely displaying information from a monitor of a main computer and for remotely controlling the computer.

35. A shortened statutory period for reply to this Office action is set to expire THREE MONTHS from the mailing date of this action.

36. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Joo whose telephone number is 571 272-3966. The examiner can normally be reached on Monday to Thursday 8AM to 5PM and every other Friday.

37. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A. Follansbee can be reached on 571 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


38. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

Art Unit: 2154

applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 23, 2005

JJ


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TECHNOLOGY CENTER 2100